## This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

## **BEST AVAILABLE IMAGES**

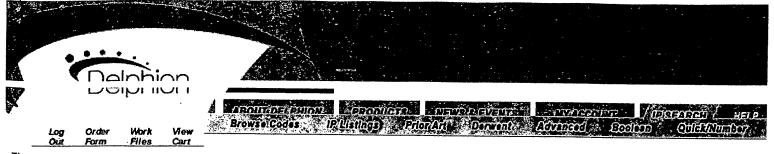
Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

<b>6</b>
☐ BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
☐ LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
OTHER:

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.



The Delphion Integrated View

Other Views: Derwent...

Title:

JP58082462A2: DETECTION OF OPERATION OF EXPLOSION-PREVENTING **DEVICE PROVIDED IN BATTERY** 

► Want to see a more descriptive title highlighting what's new about this invention?

Country:

Inventor(s):

JP Japan

Kind: Α

**KAIYA HIDEO** TSUDA SHINGO

YAMAGA MINORU

Applicant/Assignee: Inquire Regarding Licensing

MATSUSHITA ELECTRIC IND CO LTD

News, Profiles, Stocks and More about this company

Issued/Filed Dates:

May 18, 1983 / Nov. 12, 1981

Application Number:

Business Intelligence Report

JP1981000182053

IPC Class:

H01M 2/12;

Abstract:

Purpose: To increase the efficiency of a gas leakage test by

providing a sealing plate with a paraffin film, and affirming whether the paraffin film was broken or opened due to pressure developed during a gas leakage or not by means of a pin-hole detector. Constitution: In a battery which has a sealing plate 3 coated with a

paraffin film as indicated in Fig. (A), when any gas leakage occurs during charging, the pressure of a valve space part 17 increases due to gas flowing into the part 17 from a penetrating hole 5 provided in a positive terminal provided with an explosionpreventing device, and the paraffin film breaks to form an opening 18 as indicated in Fig. (B). After the opening 18 is formed due to the expansion caused by the internal pressure of the paraffin film 10 in such a manner as mentioned above, when a high alternating voltage is applied across electrodes 11 and 12 by use of a circuit

keying device 16, electric discharge develops between the electrode 12 and the sealing plate 3 through the opening 18, and a current detector 15 detects the current. As a result, the detector 15 indicates that the paraffin film 10 is opened, and displays that the gas leakage has occured.

COPYRIGHT: (C)1983,JPO&Japio

 See a clear and precise summary of the whole patent, in understandable terms.

Family:

Show known family members

Other Abstract Info:

none

Foreign References:

No patents reference this one



View **Image** 

1 page

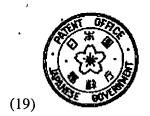
DETECTION OF OPERATION OF EXPLOSION-PREVENTING DEVICE PROVIDED IN BATTERY (J... Page 2 of 2





Nominate this for the Gallery...

Subscribe | Privacy Policy | Terms & Conditions | FAQ | Site Map | Help | Contact Us
© 1997 - 2002 Delphion Inc.



(11) Publication number:

58082462 A

Generated Document.

## PATENT ABSTRACTS OF JAPAN

(21) Application number: **56182053** 

(51) Intl. Cl.: H01M 2/12

(22) Application date: 12.11.81

(30) Priority:

(43) Date of application publication:

18.05.83

(84) Designated contracting

states:

(71) Applicant: MATSUSHITA ELECTRIC IND CO

LTD

(72) Inventor: KAIYA HIDEO
TSUDA SHINGO

YAMAGA MINORU

(74) Representative:

(54) DETECTION OF OPERATION OF EXPLOSION-PREVENTING DEVICE PROVIDED IN BATTERY

(57) Abstract:

PURPOSE: To increase the efficiency of a gas leakage test by providing a sealing plate with a paraffin film, and affirming whether the paraffin film was broken or opened due to pressure developed during a gas leakage or not by means of a pin-hole detector.

CONSTITUTION: In a battery which has a sealing plate 3 coated with a paraffin film as indicated in Fig. (A), when any gas leakage occurs during charging, the pressure of a valve space part 17 increases due to gas flowing into the part 17 from a penetrating hole 5 provided in a positive terminal provided with an explosion-preventing device, and the paraffin film breaks to form an opening 18 as indicated in Fig. (B). After the opening 18 is formed due to the expansion caused by the internal

pressure of the paraffin film 10 in such a manner as mentioned above, when a high alternating voltage is applied across electrodes 11 and 12 by use of a circuit keying device 16, electric discharge develops between the electrode 12 and the sealing plate 3 through the opening 18, and a current detector 15 detects the current. As a result, the detector 15 indicates that the paraffin film 10 is opened, and displays that the gas leakage has occured.

COPYRIGHT: (C)1983,JPO&Japio

